

10TH SCIENTIFIC CONFERENCE „RESEARCH, USE AND PROTECTION OF CAVES“

**RESEARCH AND PROTECTION OF CAVES
OF THE SLOVAK AND AGGTELEK KARST**

**Rožňava, Slovakia – Bódvaszilás, Hungary
September 22–25, 2015**

P R O G R A M M E

September 22, 2015

Registration, Hotel Kras, Rožňava 10:00-11:30

Transport from Rožňava to the Baradla Cave by bus 11:40-12:30

Ceremony at the occasion of the 20th anniversary of the inscription of the Caves of Slovak and Aggtelek Karst on the World Heritage List and visit of the Baradla Cave 13:00-15:15

Transport to the Domica Cave by bus 15:15-15:25

Visit and reception in the Domica Cave 15:30-18:00

Transport to Rožňava by bus 18:00-18:45

September 23, 2015

Registration, Town Hall, Rožňava, 08:00-09:00

Opening of the conference 09:00-09:15

J. Klinda: 20 years of the World Heritage Site „Caves of the Slovak and Aggtelek Karst“ 09:20-09:40

J. Tardy: Memories from the inscription of the Caves of Aggtelek and Slovak Karst on the World Heritage List 09:40-10:00

Geology and geomorphology I

Chairman: Assoc. Prof. Szabolcs Leél-Őssy, C.Sc.

O. Piros: Geological formations of the Baradla Cave: an overview 10:00-10:15

L. Gaál: Main tectonic features of Baradla Cave 10:15-10:30

P. Bella, R. Braucher, J. Holec, M. Veselský: Cosmogenic nuclide dating of allochthonous fluvial sediments in the Domica Cave and Dobšinská Ice Cave: morphogenic and paleogeographical implications 10:30-10:45

P. Bosák, P. Pruner, P. Bella: New results of paleomagnetic research in the Ochtinská Aragonite Cave, Slovakia and their speleogenetic interpretation 10:45-11:00

Discussion 11:00-11:15

Coffee break 11:15-11:30

Geology and geomorphology II

Chairman: Prof. RNDr. Pavel Bosák, Dr.Sc.

L. Palcsu, Y. Dublyansky, I. Futó, A. Horváth: Stable isotope analyses of inclusion water in a stalagmite from the Baradla Cave, Hungary 11:30-11:45

M. Gašiorowski, H. Hercman, J. Pawlak, M. Gradziński, P. Bella, Š. Matoušková: Late Glacial – Holocene transition reconstructed on the basis of high resolution stable isotope record from Southern Slovakia 11:45-12:00

W. Wróblewski, M. Gradziński, J. Motyka, J. Stankovič: Modern subaqueous flowstones from selected caves of the Slovak Karst (southern Slovakia) 12:00-12:15

I. Balázs, T. Mátrahalmi, A. Serfőző, M. Ambrus, P. Gruber, L. Gaál: Geophysical exploration of the Haragistya – Silica – Silická Brezová karst area 12:15-12:30

T. Látos, T. Telbisz, M. Deák, B. Székely, Zs. Koma, T. Standovár: Derivation of doline morphometrical data from LiDAR and contour-based DTMs 12:30-12:45

Discussion 12:45-13:00

Lunch 13:00-14:00

Hydrology and hydrochemistry I

Chairman: RNDr. Peter Malík, CSc.

I. Balázs, P. Gruber, D. Haviarová, T. Mátrahalmi, A. Serfőző, M. Ambrus, E. Gaál: Tracer tests in the Haragistya – Silica – Silická Brezová karst area 14:00-14:15

D. Haviarová, R. Fláková, Z. Ženišová, B. Šutarová: Chemical composition and water quality of selected cave hydrological systems of the Silická Plateau (Slovak Karst) 14:15-14:30

A. Petrvalská, G. Koltai, L. Palcsu, V. Straková: Differences in temporal changes of selected water quality parameters on the Jasovská Plateau 14:30-14:45

Z. Hochmuth, A. Petrvalská: Flow and climate regime in the catchment area of the Styx Stream in the Domica-Baradla cave system 14:45-15:00

T. Lánčzos, P. Filipčíková: Geochemical factors of karst phenomena formation and development in the site of Havrania skala (Malé Karpaty Mts.) 15:00-15:15

Discussion 15:15-15:30

Coffee break 15:30-15:45

Hydrology and hydrochemistry II

Chairman: Prof. Dr. Gábor Szunyogh

P. Gruber: Degradation studies of dripstones in the Baradla Cave 15:45-16:00

P. Malík, F. Bottlik, M. Gregor, J. Michalko, A. Pažická, J. Kordík: Flow accretion survey at streams in Zádielska and Hájska dolina valleys (Slovenský kras Mts., Slovakia) – signs of a large regional drainage pattern 16:00-16:15

L. Vlček, D. Hutka, P. Kubička, T. Lánčzos: What do we know about the Jazerná Cave at all? 16:15-16:30

P. Pracný, J. Faimon: Hydrogeochemistry of low-saturated drips in Moravian Karst 16:30-16:45

Discussion 16:45-17:00

Coffee break 17:00-17:15

Geoinformatics, cave mapping and documentation

Chairman: Assoc. Prof. János Móga, PhD.

J. Hofierka, Z. Hochmuth, M. Gally, J. Kaňuk, A. Petrvalská, D. Barabas: Mapping the Domica cave using laser scanning and hydroclimate monitoring 17:15-17:30

S. Borzsák, Cs. Egri, J. Kisbán, G. Szunyogh: Large scale mapping of Baradla Cave based on 3D laser scan technology 17:30-17:45

O. Suldovská: What information you can get from JESO web application 17:45-18:00

Discussion 18:00-18:15

Break 18:15 – 18:30

Cs. Egri: 3D speleological slideshow about the World Heritage 18:30-19:00

September 24, 2015

Transport from Rožňava to Bódvaszilas by bus 08:15-09:15

Biospeleology and microbiology

Chairman: Assoc. Prof. RNDr. Lubomír Kováč, CSc.

- A. Mock, E. Kováč, V. Papáč, P. Luptáčík, A. Parimuchová, L. Forró, D. Angyal, L. Dányi, G. Szél, G. Balázs, V. Košel, P. Fend'a: Terrestrial and aquatic arthropods (Arthropoda) of the Domica-Baradla cave system 09:30-09:45
- A. Nováková: Microscopic fungi of the Domica-Baradla cave system – results from several years 09:45-10:00
- M. Seman, B. Gaálová: Microbial profile of cave water of the Silická Plateau 10:00-10:15
Discussion 10:15-10:30

Cave climate

Use and protection of karst and caves

Chairman: Dr. Jacek Piasecki

- J. Stieber, Sz. Leél-Össy: Peace Cave observed accumulation of carbon dioxide causes and consequences 10:30-10:45
- T. Sawiński, M. Korzystka-Muskała, J. Hebelka, J. Piasecki, J. Zelinka, P. Muskała: Application of biometeorological models for analysing human body heat balance in cave environment 10:45-11:00
- M. Lang, J. Faimon: Influence of cave CO₂ levels by advective fluxes from epikarst 11:00-11:15
- Z. Hochmuth: The anthropogenic changes and burdens in the Domica cave systém 11:15-11:30
- T. Telbisz, Zs. Bottlik, L. Mari, A. Petrvalská: The effect of karst on social conditions – the example of Gömör-Torna Karst 11:30-11:45
Discussion 11:45-12:00

Coffee break 12:00-12:15

Archaeology and history

Chairman: Piroska Csengeri, PhD.

- G. Rezi Kató: New results of archaeological research in the Baradla Cave 12:15-12:30
- A. Šefčáková: Prehistoric charcoal drawings and traces from torches in Domica cave and other caves in the Slovak Republic 12:30-12:45
- M. Lalkovič: Beginnings of interest in caves in the light of present knowledge 12:45-13:00
Discussion 13:00-13:15

Posters 13:15-13:45

- G. Balázs, D. Angyal: Study on *Niphargus aggtelekiensis* Schiödte, 1849 (Crustacea: Amphipoda) populations in the caves of the Aggtelek Karst
- A. Gądek: Corrosional pits in Upper Jurassic massive limestone (Ojców National Park, Poland)
- B. Gaálová, M. Seman: Quantitative and qualitative analysis of microbiota from Domica-Baradla cave system
- M. Korzystka-Muskała, T. Sawiński, J. Zelinka, P. Muskała, J. Piasecki: Spatial differentiation of air temperature in the deep parts of Demänovská Ice Cave – results of investigations from 2012 – 2014
- M. Łata: Modern pollen grains in Wierzchowska górna Cave, Poland
- G. Lešínský: Speleological exploration of the Slovak Karst by cavers from the Slovak Museum of Nature Protection and Speleology, and Speleoclub Drienka from 1989
- G. Lešínský, J. Psoťka, P. Holúbek, I. Hlaváčová: Current number and distribution of caves in the Slovak Karst
- M. Melega, A. Mock, V. Čech: Communities of arthropods in caves of the Galmus Plateau (Volovské vrchy, Slovakia) – preliminary results
- A. Nováková, A. Kubátová, T. Bartonička: Underground environment as potential source of White Nouse Syndrom (WNS) for bat population
- Z. Zsilák, Z. Kovács, K. Stoller, P. Gruber: On-line water quality measuring systems on several springs of Aggtelek National Park

Closing of the conference 13:45

Lunch 13:50-14:30

Excursion to the caves of Esztramos Hill *14:30-18:00*

Transport from Esztramos Hill to Rožňava by bus 18:00-19:15

September 25, 2015

All-day excursions:

1. Strenuous cave trip (in case of low water level): passing from Baradla to Domicia Cave (entrance near Aggtelek – trough the Kessler’s siphons of Styx stream – Csernai branch – HU-SK boundary – Kaňon – exit of tunnel Domicia), 3.5 km. In case of high water level: cave trip to Csernai branch from Domicia (*need: speleological overall, headlight, rubber-boots; total submerging in water!*)
2. Easy and long cave trip in Baradla Cave: entrance near Aggtelek – main river channel in Baradla – Retek branch – exit near Jósvalő, 7 km (*need: terrain boots, jackets*)

Departure from Rožňava 08:30